SZABO SCANDIC

Part of Europa Biosite

Produktinformation

- Forschungsprodukte & Biochemikalien
- Zellkultur & Verbrauchsmaterial
- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!

Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

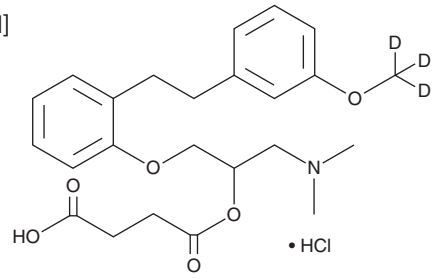
linkedin.com/company/szaboscandic

PRODUCT INFORMATION

Sarpogrelate-d_3 (hydrochloride)

Item No. 33472

Formal Name: butanedioic acid, 1-[2-(dimethylamino)-1-[[2-[2-(3-methoxyphenyl-d_3)ethyl]phenoxy]methyl] ethyl] ester, monohydrochloride
MF: $C_{24}H_{28}D_3NO_6 \bullet HCl$
FW: 469.0
Chemical Purity: ≥98% (Sarpogrelate (hydrochloride))
Deuterium Incorporation: ≥99% deuterated forms (d_1-d_3); ≤1% d_0
Supplied as: A solid
Storage: -20°C
Stability: ≥2 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

Sarpogrelate-d_3 (hydrochloride) is intended for use as an internal standard for the quantification of sarpogrelate (hydrochloride) (Item No. 24194) by GC- or LC-MS. The accuracy of the sample weight in this vial is between 5% over and 2% under the amount shown on the vial. If better precision is required, the deuterated standard should be quantitated against a more precisely weighed unlabeled standard by constructing a standard curve of peak intensity ratios (deuterated *versus* unlabeled).

Sarpogrelate-d_3 (hydrochloride) is supplied as a solid. A stock solution may be made by dissolving the sarpogrelate-d_3 (hydrochloride) in the solvent of choice, which should be purged with an inert gas. Sarpogrelate-d_3 (hydrochloride) is soluble in organic solvents such as methanol and DMSO.

Description

Sarpogrelate is a selective antagonist of the serotonin (5-HT) receptor subtypes 5-HT_{2A}, 5-HT_{2B}, and 5-HT_{2C} (K_is = 3.02, 269, and 37.2 nM, respectively, for human recombinant receptors expressed in CHO-K1 cells).[1] It is selective for 5-HT_2 (K_i = 70.8 nM) over 5-HT_1 (K_i = >26,000 nM), α_1-, α_2-, and β-adrenergic (K_is = 640-123,800 nM), and muscarinic receptors (K_i = >40,000 nM).[2] *In vitro*, it inhibits aggregation of rat whole blood induced by collagen, 5-HT (Item No. 14332) with collagen, and 5-HT with ADP (Item No. 16778; IC_{50}s = 57.7, 0.56, and 22.7 µM, respectively).[3] *In vivo*, it inhibits leukocyte-endothelial interactions in the femoral artery induced by a high-fat high-fructose diet (HFFD) in mice when administered at a dose of 5 mg/kg per day.[4] Sarpogrelate (5 mg/kg per day) decreases ventricular hypertrophy and infarct size in a rat model of myocardial infarction.[5]

References

1. Rashid, M., Manivet, P., Nishio, H., *et al. Life Sci.* **73(2)**, 193-207 (2003).
2. Maruyama, K., Kinami, J., Sugita, Y., *et al. J. Pharmacobiodyn.* **14(4)**, 177-181 (1991).
3. Kubacka, M., Kazek, G., Kotańska, M., *et al. Eur. J. Pharmacol.* **818**, 263-270 (2018).
4. Kataoka, H., Ariyama, Y., Deushi, M., *et al. PLoS One* **11(1)**, e0147929 (2016).
5. Brasil, D., Temsah, R.M., Kumar, K., *et al. J. Cardiovasc. Pharmacol. Ther.* **7(1)**, 53-59 (2002).

CAYMAN CHEMICAL
1180 EAST ELLSWORTH RD
ANN ARBOR, MI 48108 · USA
PHONE: [800] 364-9897
[734] 971-3335
FAX: [734] 971-3640
CUSTSERV@CAYMANCHEM.COM
WWW.**CAYMANCHEM**.COM